

# Cost-Saving Alternative to Lime Softening

## The Pall Aria™ Integrated MF/NF System

If you are dependent on lime softening to pretreat surface water and influent water for general utility applications, you could benefit from upgrading to a Pall Aria Integrated MF/NF system.

The Pall Aria MF/NF system leverages advanced dual-membrane technology for process water treatment. This hollow-fiber microfiltration (MF) and nanofiltration (NF) system has been proven to reduce overall operational costs by 15-20%. It can also achieve consistent and high-quality product water, with a significantly smaller footprint, less waste, and no need for sludge dewatering, hauling, and disposal.

### Value

- Ensure consistent, high-quality water.
- Maximize control over your water treatment operation.
- Minimize footprint, waste, and disposal costs.
- Reduce operating expenses by as much as 20%.

### Is This an Opportunity for You?

- Does your water quality vary or periodically fail to meet specifications?
- Is consistent water quality important to you?
- Do you typically use more than 100 gpm (23 m<sup>3</sup>/hr) of water for boilers and utility operations?
- Are you interested in significant savings on operating costs for water treatment?

### Why the Pall Aria Integrated MF/NF System?

- Produces consistent quality water without upsets from a lime softening

operation.

- Eliminates sludge dewatering and disposal costs.
- Improves the removal of hardness and alkalinity in treated water.
- Reduces chemical costs and usage.
- Improves ion exchange water treatment.

### Key Industries

- Automotive
- Chemical processing
- Food and beverage
- Hydrocarbon processing
- Mining
- Power
- Pulp and paper

### Features

- Standard designs for trouble-free operation.
- Touch-screen controls for simple operation.
- Modular design for rapid integration.
- Multiple membrane barriers for process protection.

### Why Pall?

- Flexible water management: outsource operations, service contract, or service-on-demand.
- Flexible project financing: capital purchase, lease-to-own, rent, or purchase treated water.
- Streamlined system design and operation using our experience of over 60 years in the field of water treatment.
- Lifetime system support from filtration experts with excellent track records for customer satisfaction.



**Corporate Headquarters**

**Americas**

East Hills, NY USA

1.516.801.9906 Phone

1.888.428.5597 Toll Free

**Europe**

**Middle East**

**Africa**

Portsmouth, Hampshire UK

+44 (0) 23 9230 2374 Phone

+44 (0) 23 9230 2509 Fax

Bad Kreuznach, Germany

+49 671 8822130 Phone

+49 671 8959388 Fax

**Asia Pacific**

Bangkok, Thailand

+66 2937 1055 Phone

+66 2937 1066 Fax

**Visit us on the Web at [www.pall.com/water](http://www.pall.com/water)**

**Pall Corporation has offices and plants throughout the world.**

© Copyright 2006 Pall Corporation. Pall, , and Pall Aria are trademarks of Pall Corporation. *Filtration. Separation. Solution.<sup>SM</sup>* is a service mark of Pall Corporation.

*Filtration. Separation. Solution.<sup>SM</sup>*

PASNF1